BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. 1500000.00

Name of Work: Detailed Estimate for the Work of Providing water supply and Improvements to Dry Waste Collection Center at KPTCL Sub Station in yelahanka 5th phase of ward No-02 of Yelahanka Sub Division.

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	compound wall								
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2012-13	cum							
	compound wall		1	40.00	0.90	1.00	36.00		
	for Culvert		1	10.00	2.00	1.50	30.00		
							66.00	**135.00**	**8910.00**
	S.R.Rate	125.00							
	Area Weightage 8%	10.00							
	Total	135.00							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 117 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 117 (SR 2012-13)	cum							
			Vide Item No. 1				**66.00**	**78.24**	**5163.52**
	Basic Rate for loading and unloading	62.20							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2 X 4	10.24							
		72.44							
	Area Weightage 8%	5.80							
	Total	**78.24**							
3	KSRB-4-1.1 : Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2012-13	cum							
			1	40.00	0.90	0.15	5.40		
	for culvert		1	10.00	2.00	0.15	3.00		
	flat form		1	10.00	10.00	0.15	15.00		
							23.40	**4129.92**	**96640.13**
	Basic	3824.00							
	Area Weightage 8%	305.92							
	Total rate	4129.92							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.2-2 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5.1.13 Page No. 22/ Item No. 5.6/ PWD SR 2012-13	cum							
			1	40.00	0.75	0.80	24.00		
			1	40.00	0.60	0.40	9.60		
							33.60	**2761.56**	**92788.42**
	Basic	2557.00							
	Area Weightage 8%	204.56							
	Total rate	2761.56							
5	KSRB 5.3-2 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5-1.13 Page No. 22/ Item No. 5.8/ PWD SR 2012-13	cum							
			2	75.00	0.45	0.40	27.00		
			1	40.00	0.45	0.40	7.20		
							34.20	**3080.16**	**105341.47**
	Basic	2852.00							
	Area Weightage 8%	228.16							
	Total rate	3080.16							
6	KSRB- 4-1.5 : Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No.12/ Item No. 4.6/ PWD SR 2012-13	cum							
	for coping		2	75.00	0.45	0.10	6.75		
			1	40.00	0.45	0.10	1.80		
							8.55	**4409.64**	**37702.42**
	Basic	4083.00							
	Area Weightage 8%	326.64							
	Total rate	4409.64							
7	KSRB 6-2.2 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2, Page No. 26/ Item No. 6.7/ PWD SR 2012-13	cum							
	BBM for wall		1	40.00	0.23	2.00	18.40		
	pillers	2x8	16	0.45	0.15	2.00	2.16		
							20.56		
	deduction	2x8	16	0.23	0.23	2.00	1.69		
							1.69		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							18.87	5140.80	96992.50
	Basic	4760 00							
	Area Weightage 8%	380.80							
	Total rate	5140.80							
8	KSRB 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 97/ Item No. 15.1 / PWD SR 2012-13	sqm							
			2	75.00		0 40	60 00		
			1	40.00		0.40	16 00		
							76.00	71.39	5425.49
	Basic	66 10							
	Area Weightage 8%	5.29							
	Total rate	71 39							
10	KSRB 15.15.1: Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications. Page No.101/ Item No. 15.51 / PWD SR 2012-13	sqm							
			2	40 00		2 00	160 00		
	pillers	2x8	16	0.45		2 00	14 40		
							174.40	57.24	9982.66
	Basic	54 00							
	Area Weightage 6%	3 24							
	Total rate	57 24							
11	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2012-13	Cum							
	for Culvert		1	8.00	1.50	0.30	3.60		
	side walls		2	8.00	0.30	1.50	7.20		
	for deck slab		1	8.00	1.50	0.30	3.60		
	for coping		1	40.00	0.60	0.10	2.40		
			2	75.00	0.60	0.10	9.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	10.00	10.00	0.10	10.00		
							35.80	5239.08	187559.00
	Basic Rate	4851.00							
	Area Weightage @ 8%	388.08							
	Total	5239.08							
12 11	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46/ PWD SR 2012-13	Quintal							
	for Culvert 90 kg/cum		0.9	14.40			12.96		
							12.96	7323.48	94912.00
	Basic Rate	6781.00							
	Area Weightage @ 8%	542.48							
	Total	7323.48							
13 12	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.31/ PWD SR 2012-13	sqm							
	for Culvert	1x4	4	8.00	1.50		48.00		
	deck bottom		1	8.00	0.75		6.00		
			2	8.00	0.30		4.80		
			2	1.50	0.30		0.90		
							59.70	244.08	14572.00
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	244.08							
14	RCC Precast covering slab for drain (10cm thick)	sqm							
			1	100.00	1.50		150.00		
							150.00	1245.00	186750.00
	Rate Approved by BBMP	1245.00							
	Drilling of borewell								

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.38, I. 9.4) PRED.SR 2010-11**	Each BW							
			1				1	1900.00	1900.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 36 / I. 9.1 PRED SR 2010-11**	Rmtr							
	0 to 50 m		1	50.00			50.00	287.00	14350.00
	50 to 100 m		1	50.00			50.00	379.00	18950.00
	100 to 150 m		1	50.00			50.00	422.00	21100.00
	150 to 200 m		1	50.00			50.00	464.00	23200.00
	200 to 250 m		1	50.00			50.00	513.00	25650.00
	250 to 275 m		1	25.00			25.00	550.00	13750.00
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **SE PRED Approved Rate**	Rmtr							
			1	35.00			35.00	1325.00	46375.00
4	Providing 250mm dia PVC Pipe 6kg/cm **SE PRED Approved Rate**	Rmtr							
			1	6.00			6.00	683.00	4098.00
5	Providing 175mm dia M.S Collar **SE PRED Approved Rate**	Each							
			4				4	150.00	600.00
6	Providing and fixing 175mm Borewell Cap	Each	1				1	100.00	100.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 20 stage **SE RDED Approved Rate**	No							
	12.5 HP 20 Stage		1				1	44000.00	44000.00
8	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. **50 mm dia including Collar Heavy Class**	Rmtr							
			1	250.00			250.00		
							250.00	325.00	81250.00
9	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **2.5 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11**	Mtr							
			2	250.00			500.00		
							500.00	107.00	53500.00
10	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) **RDED Approved Rate Erection of pump motor to borewell.**	No							
			1				1	1710.00	1710.00

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 32/ I No. 2/f KPWD Electrical SR 2010-11**	Each							
			1				1	285.00	285.00
12	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.**P No. 68/ I No. 4(d) 4 core 16 Sqmm KPWD Electrical SR 2010-11**	Mtr							
			1	50.00			50.00	150.00	7500.00
13	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **P No. 69 / I No. Ia In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2010-11**	Mtr							
			1	50.00			50.00	8.00	400.00
14	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB **1-2 P-7) P No. 70/ I. No. 6-c KPWD Electrical SR 2010-11**	Mtr							
	For Cutting Road Surface		1	16.00			16.00	60.00	960.00
15	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 70/ I No.9-A KPWD Electrical SR 2010-11**	Mtr							
	40mm dia GI pipe		1	4.00			4.00	240.00	960.00
16	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 70/ I No. 10-b KPWD Electrical SR 2010-11**	No.							
	16Sqmm		1				1.00	260.00	260.00
17	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, **(P No.68, I No. 1) KPWD Electrical SR 2010-11**	No							
			1				1	1950.00	1950.00
18	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11**	No.							
	32 Amps		4				4	100.00	400.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 82Item No. 13.55 / PWD SR 2010-11**	Nos							
			1				1	1135.08	1135.00
	Basic Rate	1051.00							
	Area Weightage @ 8%	84.08							
	Total	**1135.08**							
20	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 84 / I. No. 13.81.3 **PWD SR 2010-11**	No							
	50mm dia		1				1	205.20	205.00
	Basic Rate	190.00							
	Area Weightage @ 8%	15.20							
	Total	**205.20**							
21	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete	No							
			1	4.00			4	80.00	320.00
22	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	No							
			1				1	350.00	350.00
23	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	No							
			1				1	1000.00	1000.00
24	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 41, I. No. 38B KPWD Electrical SR 2010-11**	Sq Cm							
	16SWG								
			1	550.00	60.00		33000.00		
							33000.00	0.33	10890.00

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
25	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **15HP to 30 HP Star Delta Starter SERDED Rate**	No.							
			1				1	7000.00	7000.00
26	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **(P.81/I.13.37 PWD SR - 2010-11)**	Each							
			1				1	1612.44	1612.00
	Basic Rate	1493.00							
	Area Weightage @ 8%	119.44							
		1612.44							
27	Earth work excavation for pipeline trenches including depositing on bank upto a lead of 50 mtrs. Including shoring and strutting danger lighting and using sight rails and boning rods at every 100 mtrs wherever necessary as directed in the following strata manual means in hard soil								
		Cum	1	250.00	0.45	0.60	67.50	202.00	13635.00
28	Providing and instalation at site of works P.V.C Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.12 item No.3.4.2 b PRED SR 2010-11.**	Rmtr							
	75 mm dia 6 KSC PVC pipe								
	63mm dia 6KSC		1	100.00			100.00	117.00	11700.00
29	Refilling of basement and pipeline trenches with selected available earth from trench excavation including watering, Consolidation in layers of 15cm thick including disposing of the surplus earth with a lead of 200 Mtrs		1	150.00			150.00	88.00	13200.00
		Cum	Qty same as item No 28				67.50	58.00	3915.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
30	KSRB 13.3.2: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 20mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour, charges HOM of equipments complete as per specifications. Specification Page No. 94/ Item No. 13.11 / PWD SR 2011-12								
		Rmt	1	5.00			5.00	140.40	702.00
	basic Rate	130.00							
	Area Weightage @ 8%	10.40							
	Total	140.40							
31	KSRB 13-4.1: Making connection of G.I. distribution branch with G.I. main of 25 to 40mm nominal bore, including bore, including cutting and threading the pipes, providing and fixing Tee, nuts, labour for all item of works, testing and HOM of equipments complete as per specifications. Specification No. KBS 13.10. Page No. 95/ Item No. 13.20 / PWD SR 2011-12								
		Nos	1	5.00			5.00	303.48	1517.40
	basic Rate	281.00							
	Area Weightage @ 8%	22.48							
	Total	303.48							
38	BESCOM Deposit charge								15000.00
39	Providing and fixing MS Gate	L/s							11000.00
40	Miscellaneous and Unforeseen Charges								766.55
								Total	1500000.00

(Rupees Fifteen Lakhs Only)

Administrative Sanction for Rs. 1,500,000/- Fifteen Lakhs only is accorded under Head ..... Registered as CE No ..... Subject to conditions contained in enclosed memo No. BBMP/YNK/JC/AA/1142/13-14 dt 1/6/2013

Joint Comm. Yelahanka Zone 1/6/13

(Rupees Ten Lakhs Only)

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2012-13, PWD Electrical 2010-11, PRED 2010-11 & SE-RDED approved Rate
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Ramareegowda,
Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

TECHNICALLY SANCTIONED FOR Rs. 1500000 Rupees Fifteen lakhs only Under ..... Registered as CE ( ) No ..... Subject to conditions contained in enclosed memo EE/YNK/TS/ Dt 01/06/2013 /13-14 Sanctioned No ..... Rs. 1500000/-

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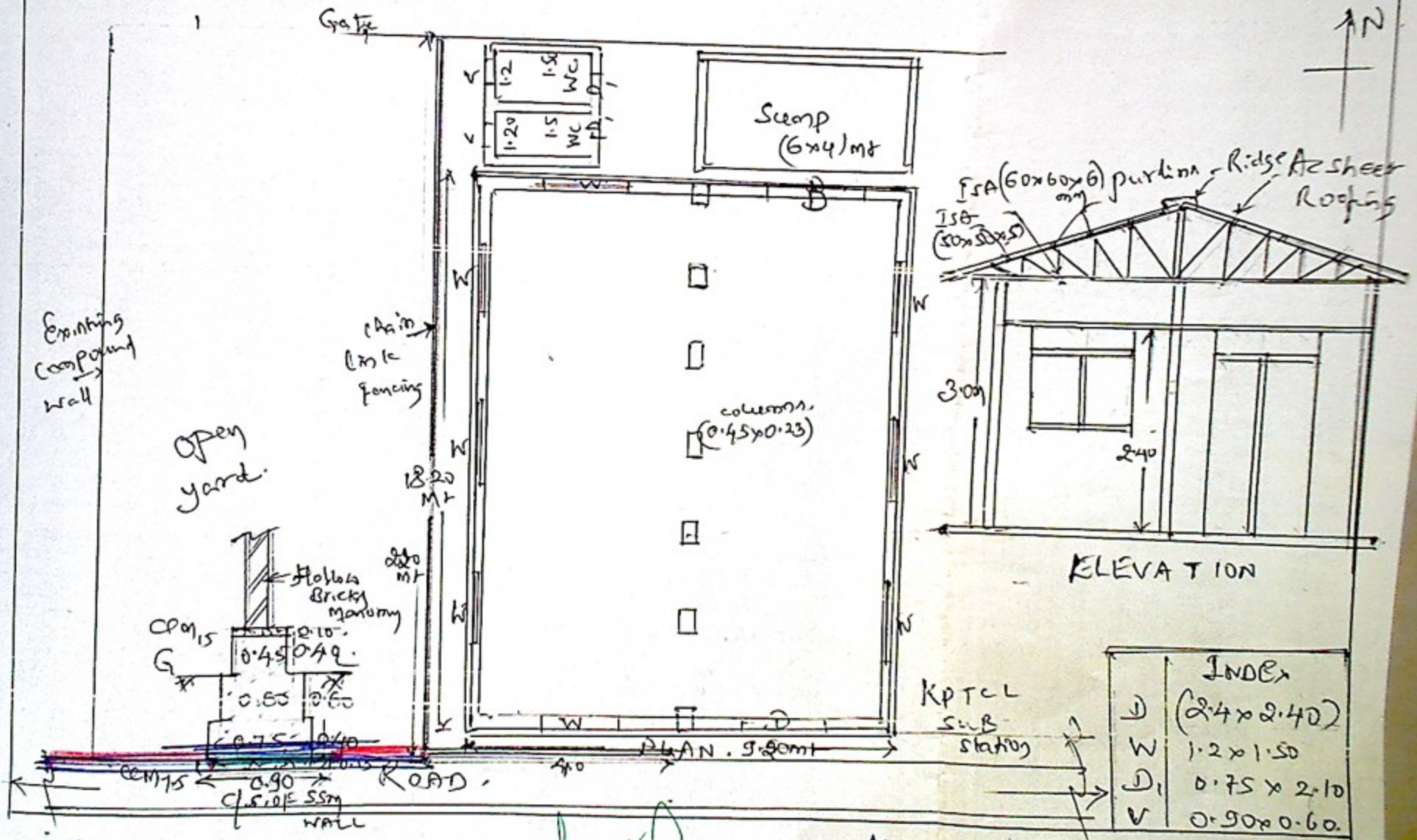

Remarks

Asst. Executive Engineer
Yelahanka Sub. Division
(BSMP Ynk. Zn)
Yelahanka, Bangalore

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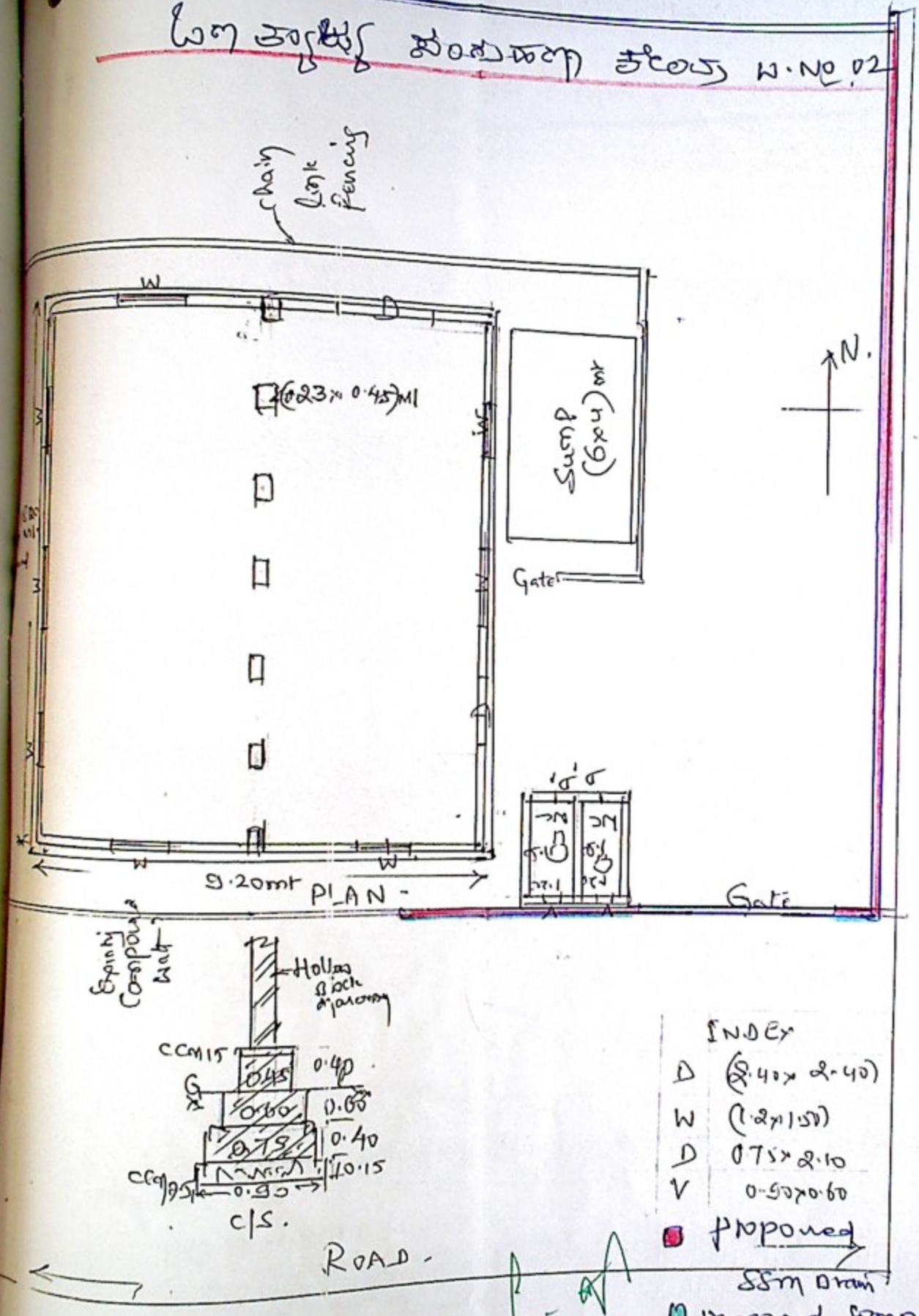

INDEX

D	(0.40 × 2.40)
W	(1.2 × 1.50)
D	0.75 × 2.10
V	0.60 × 0.60

Proposed

Proposed compound Wall.

Remarks

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore